

Rasp Mine Monthly Environmental Monitoring Report July 2020



INTRODUCTION

Broken Hill Operations Pty Ltd (BHOP) [a wholly owned subsidiary of CBH Resources Limited (CBH)] owns and operates the Rasp Mine (the Mine), which is located centrally within the City of Broken Hill on Consolidated Mine Lease 7 (CML7).

Mining has been undertaken within CML7 since 1885. The existing operations at the Rasp Mine include underground mining operations, a processing plant producing zinc and lead concentrates and a rail siding for concentrate dispatch. These operations are undertaken in accordance with Project Approval 07_0018 granted 31 January 2011, under Part3A of the Environmental Planning and Assessment Act 1979 (EP&A Act).

As the holder of an Environmental Protection Licence, 12559, BHOP is required, under Section 66(6) of the NSW *Protection of the Environment Operations Act 1997*, to publish pollution monitoring data. In addition BHOP is required to publish data in accordance with its Project Approval 07_0018 Schedule 4 Condition 9. These documents can be found on the Rasp Mine web site.

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1 Air Quality

The following criteria as listed in the Project Approval (DA 07_0018 MOD7 July 2019) apply to air quality monitoring:

Long Term Criteria for Particulate Matter

Pollutant	Averaging Period	Criterion	
Total solid particles (TSP)	Annual	90 μg/m³	
Particulate matter < 10 µm (PM ₁₀)	Annual	25 μg/m³	

Short Term Criterion for Particulate Matter

Pollutant	Averaging Period	Criterion	
Particulate matter < 10 µm (PM ₁₀)	24 hour	50 μg/m³	

Long Term Criteria for Deposited Dust

Pollutant Averaging P		Maximum Project Contribution	Maximum Total Deposited Dust Level
Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month

1.1 High Volume Air Samplers

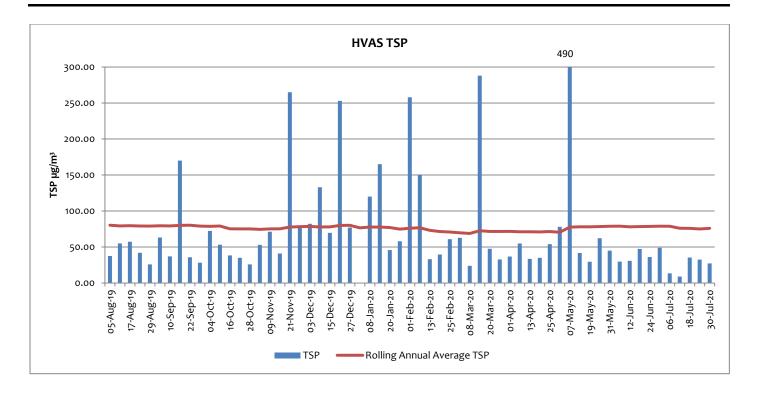
There are four high volume air samplers used to measure ambient air quality at the Rasp Mine – HVAS (EPL10) and HVAS1 (EPL11) are located at the Silver Tank, central and to the south of the mine lease, and HVAS2 (EPL12) and HVAS3 (EPL57) are located adjacent to and north of Blackwood Pit. A map indicating these locations can be found on the Rasp Mine web site. HVAS and HVAS3 sample for total suspended particulates (TSP) and lead dust, and HVAS1 and HVAS2 sample for particulate matter less than 10 microns (PM₁₀) and lead dust.

HVAS (EPL10) - Silver Tank (On Site) Results for July

DATE	TSP (µg/m³)	Lead (µg/m³)
6-07-2020	13.40	0.07
12-07-2020	9.00	0.06
18-07-2020	35.40	0.28
24-07-2020	32.50	0.25
30-07-2020	27.20	0.19



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HVAS (EPL10) is located on the southern boundary of Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location.

There were no dust storm events producing extreme results in July. The annual rolling average for TSP at this location has fallen over the 12 months to 75.94 $\mu g/m^3$ at the end of July after starting at 80.26 $\mu g/m^3$ in August 2019.

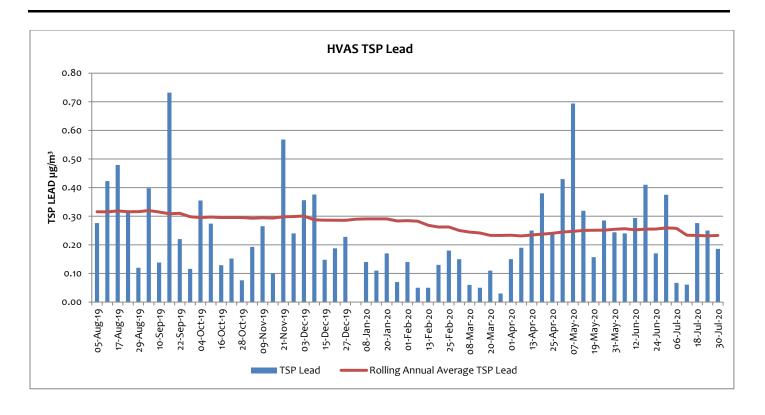
The rolling annual average for TSP to July 2020 is below the long term annual average criteria of 90 μ g/m³. The annual rolling average for TSP includes data collected during extreme events such as dust storms.

Dust is controlled on site using the application of dust suppressant on free (unused) areas and side tracks, and from the frequent watering of haul roads.

There were slightly elevated TSP Lead levels on 18, 24 and 30 July when the wind was from the NNE, NE, and SSE, respectively. While site activities may have contributed to the elevated Lead levels on 18 and 24 July, the Lead levels recorded on 30 July were likely from off-site sources.

The rolling annual average for TSP Lead at 30 July was 0.23 $\mu g/m^3$, down from the August 2019 rolling average result of 0.32 $\mu g/m^3$.





HVAS1 (EPL11) - Silver Tank (On Site) Results for July

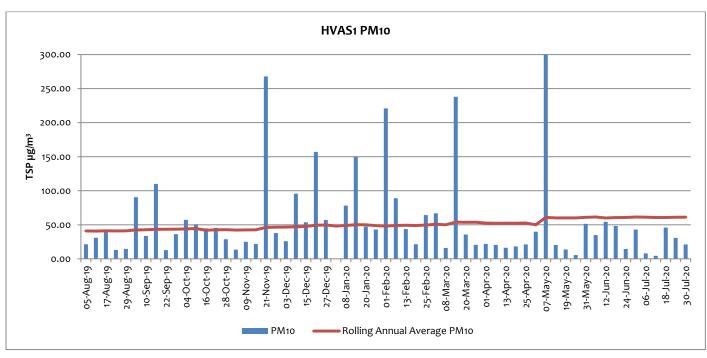
DATE	PM ₁₀ (μg/m³)	PM ₁₀ Lead (μg/m³)
6-07-2020	8.00	0.03
12-07-2020	4.40	0.03
18-07-2020	45.90	0.29
24-07-2020	30.80	0.19
30-07-2020	21.20	0.10

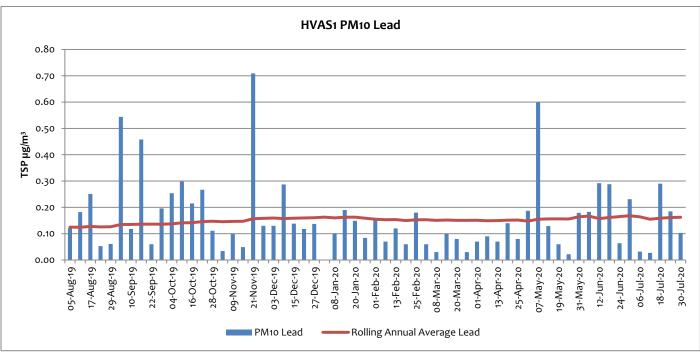
HVAS1 (EPL11) is located on the southern boundary of Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location.

There were no dust storm events producing extreme results in July. The annual rolling average for PM_{10} at this location has risen over the 12 months from 41.0 $\mu g/m^3$ in August 2019 to 61.2 $\mu g/m^3$ in July 2020. While the annual rolling average for PM_{10} at this location exceeds the long term criteria of 25 $\mu g/m^3$, the reported data includes results measured from extreme or external events such as dust storms.

There is no guideline for assessing PM_{10} lead dust; the rolling annual average for PM_{10} lead dust at this location has risen over the previous 12 months from 0.12 $\mu g/m^3$ to 0.16 $\mu g/m^3$ and is likely the result of drought conditions and windy weather transporting lead contaminated dust from the Broken Hill environs. There were elevated PM_{10} lead dust level of 0.29 $\mu g/m^3$ on 18 July, 0.19 $\mu g/m^3$ on 24 July, and 0.10 $\mu g/m^3$ on 30 July. The winds on these dates was from the NE, NE, and SSE, respectively, and while site activities may have contributed to the elevated Lead levels on 18 and 24 July, the Lead levels recorded on 30 July were likely from off-site sources.







HVAS 2 (EPL12) - Blackwood Pit (On Site) Results for July

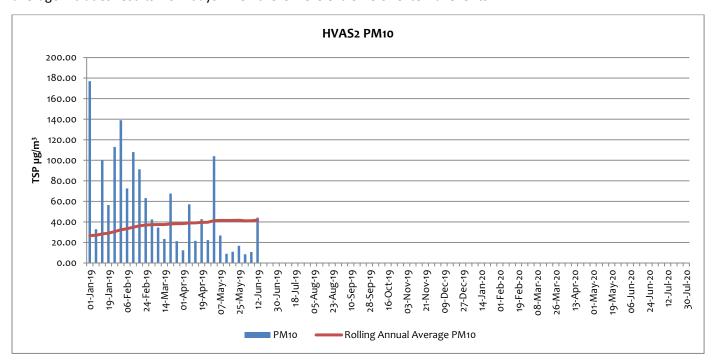
DATE	PM ₁₀ (μg/m³)	PM ₁₀ Lead (μg/m³)
6-07-2020	NS	NS
12-07-2020	NS	NS
18-07-2020	NS	NS
24-07-2020	NS	NS



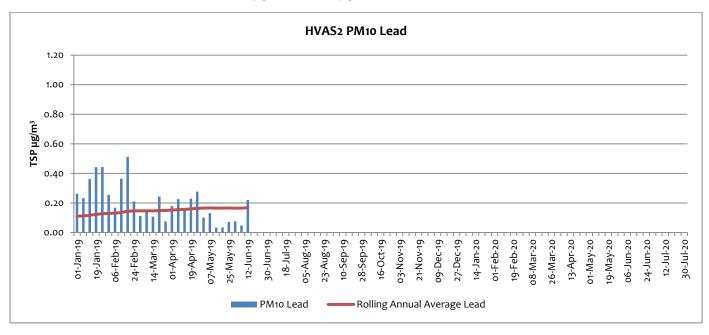
30-07-2020 NS NS

HVAS2 (EPL12) is located on the northern boundary of Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location. HVAS2 has been decommissioned while Embankment 2 TSF2 construction works are undertaken. A real-time PM₁₀ monitor is in place adjacent to the HVAS2 location.

The rolling annual average PM_{10} dust level to June 2019 is 41.74 µg/m³, which is above the PM_{10} annual average criterion 25 µg/m³ required at the nearest residential location. However, the calculation of the rolling annual average includes results from days when there were extreme or external events.



There is no guideline for assessing PM10 lead dust; the Annual Rolling Average for lead dust at this location had increased over the 12 months from $0.07 \,\mu\text{g/m}^3$ to $0.16 \,\mu\text{g/m}^3$ at the end of June 2019.



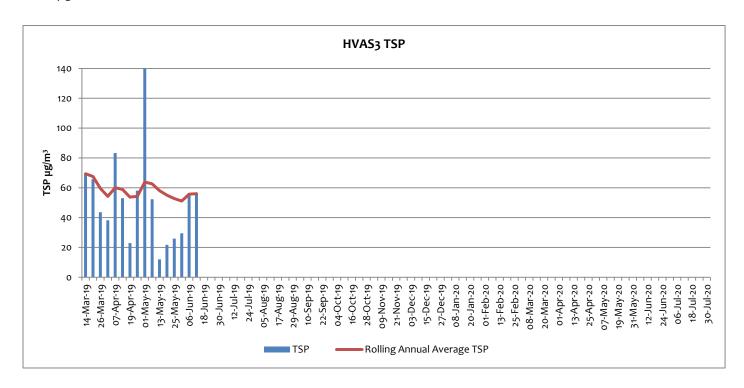


HVAS 3 (EPL57) - Blackwood Pit (On Site) Results for July

DATE	TSP (μg/m³)	PM ₁₀ Lead (µg/m³)
6-07-2020	NS	NS
12-07-2020	NS	NS
18-07-2020	NS	NS
24-07-2020	NS	NS
30-07-2020	NS	NS

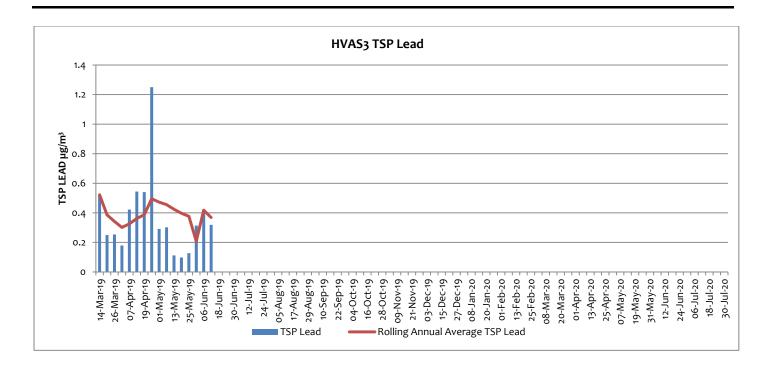
HVAS3 (EPL57) is located on the northern boundary of Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location. HVAS3 (EPL57) was included in EPL 12559 on 14 March 2019 to provide for monitoring of TSP Dust on the northern boundary of the site at Blackwoods Pit TSF2. HVAS3 has been decommissioned while Embankment 2 TSF2 construction works are undertaken. A real-time PM10 monitor is in place adjacent to the HVAS2 location.

The rolling annual average for TSP to June 2019 is 56.05 $\mu g/m^3$ which is below the long term annual average criteria of 90 $\mu g/m^3$.



The rolling annual average for TSP Lead to June 2019 is $0.37 \mu g/m^3$.





1.2 Tapered Element Oscillating Microbalance Sampling (TEOM)

There are two Tapered Element Oscillating Microbalance (TEOM) sampling units used to measure ambient air quality at the Rasp Mine – TEOM1 (EPL13) is located off-site within the perimeter fence of Essential Water south of the mine lease, and TEOM2 (EPL14) is located on-site adjacent to Blackwood Pit to the north of the mine lease. A map indicating these locations can be found on the Rasp Mine web site. TEOM1 and TEOM2 operate continuously and sample for particulate matter less than 10 microns (PM₁₀) in size.

TEOM2 was decommissioned from 19 June due to Embankment 2 TSF2 construction works. The decommissioning is in accordance with dust management strategies agreed with the EPA which includes the operation of a real-time PM10 monitor north of the construction works. Both Project Approval and Environment Protection Licence criteria exclude dust storms and other extraordinary events.

Project Approval 07_0018 apply at TEOM1 and 2, with two criteria listed for PM10, a 24 hour average criteria of 50 ug/m^3 and an annual average criteria of 25 ug/m^3 .

TEOM data is validated by third party consultants using Australian Standards and internal procedures, and is used to populate the table of TEOM monthly data provided below.



TEOM1 (EPL13) (Off Site) and TEOM2 (EPL14) (On Site) Validated Results for July

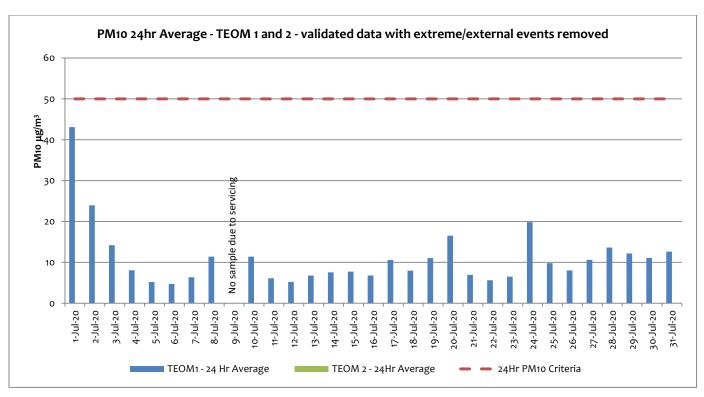
Date	TEOM 1 (μg/m³)	Compliant with 50µg/m ³ 24hr average?	TEOM 2 (μg/m³)	Compliant with 50µg/m³ 24hr average?
1-Jul-20	43.1	Υ	NS	Υ
2-Jul-20	24.0	Υ	NS	Υ
3-Jul-20	14.2	Υ	NS	Υ
4-Jul-20	8.1	Υ	NS	Υ
5-Jul-20	5.2	Υ	NS	Υ
6-Jul-20	4.7	Υ	NS	Υ
7-Jul-20	6.4	Υ	NS	Υ
8-Jul-20	11.4	Υ	NS	Υ
9-Jul-20	NS - servicing	Υ	NS	Υ
10-Jul-20	11.4	Υ	NS	Υ
11-Jul-20	6.1	Υ	NS	Υ
12-Jul-20	5.2	Υ	NS	Υ
13-Jul-20	6.8	Υ	NS	Υ
14-Jul-20	7.6	Υ	NS	Υ
15-Jul-20	7.7	Υ	NS	Υ
16-Jul-20	6.8	Υ	NS	Υ
17-Jul-20	10.6	Υ	NS	Υ
18-Jul-20	8.0	Υ	NS	Υ
19-Jul-20	11.0	Υ	NS	Υ
20-Jul-20	16.5	Υ	NS	Υ
21-Jul-20	7.0	Υ	NS	Υ
22-Jul-20	5.6	Υ	NS	Υ
23-Jul-20	6.5	Υ	NS	Υ
24-Jul-20	19.8	Υ	NS	Υ
25-Jul-20	9.8	Υ	NS	Υ
26-Jul-20	8.0	Υ	NS	Υ
27-Jul-20	10.6	Υ	NS	Υ
28-Jul-20	13.6	Υ	NS	Υ
29-Jul-20	12.2	Υ	NS	Υ
30-Jul-20	11.1	Υ	NS	Υ

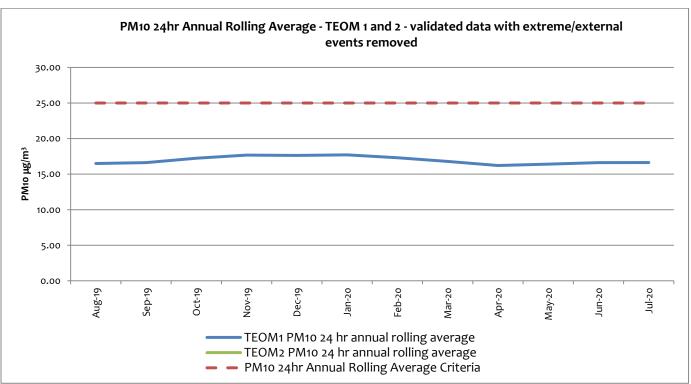
NS¹ – no sample collected due to temporary decommissioning of TEOM unit.

There were no significant extreme dust events in Broken Hill during July.

The PM_{10} 24-hour rolling annual average for data with external elevated dust events removed at July 2020 is $16.63 \mu g/m^3$ for TEOM1 and has remained at 20.52 $\mu g/m^3$ for TEOM2 as the rolling average has not been calculated while the unit has been decommissioned. The PM_{10} 24-hour rolling annual average for both TEOM sites remain below the annual average criteria of 25 ug/m^3 .









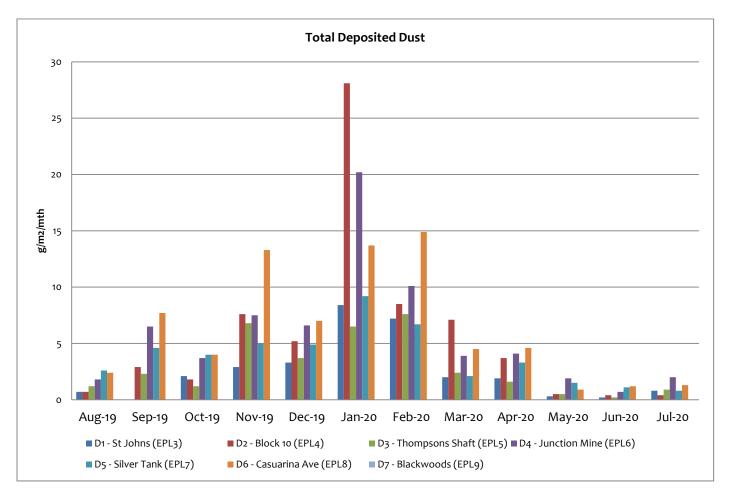
1.3 Dust Deposition Sampling

There are seven dust deposition gauges to measure ambient air quality at the Rasp Mine – D1 to D7. D1 and D6 are located off-site, D1 near the St Johns training facility north of the Rasp Mine and D6 in Casuarina Avenue south of the Rasp Mine. D2 to D5 and D7 are located on the mine lease in various locations. A map indicating these locations can be found on the Rasp Mine web site. Dust samples are collected monthly and analysed for total deposited dust and deposited lead dust. DDG7 has been decommissioned since June 2019 due to works on TSF Embankment 2.

Dust Deposition Gauges D1 (EPL3) to D7 (EPL9) – Results for July

Total Deposited Dust (g/m²/Month)							
Sample Period	D1 (off site)	D2 (on site)	D3 (on site)	D4 (on site)	D5 (on site)	D6 (off site)	D7 (on site)
July 2020	0.8	0.4	09	2.0	0.8	1.3	NS
Background (2010)	4.0	3.1	4.3	5.7	-1	5.8	-1
Compliant?	Υ	N/A	N/A	N/A	N/A	Υ	N/A

Note: "1"= background not available, N/A = not applicable as dust deposition unit is located on site, NS = No sample



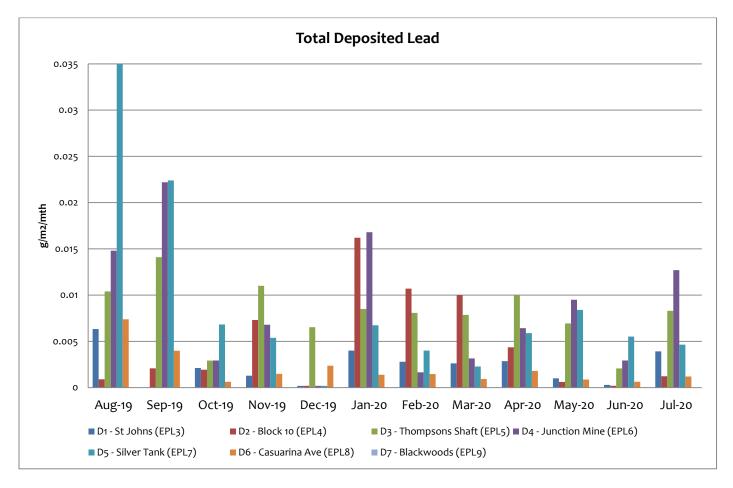
The dust levels recorded in Dust Gauges in July were very low compared to previous months which is likely due to cool weather and lack of extreme dust events or storms. The predominant wind directions for July were from the SW, SSW, and S. The highest dust levels were recorded in the D4 Junction Mine and D6 Casuarina Avenue gauges.



The D4 Junction Mine results are likely impacted by site activities and the D6 Casuarina Avenue results by community activities as D6 is a control site.

Total Deposited Lead (g/m ^{2/} Month)							
Sample Period	D1 (off Site)	D2 (on site)	D3 (on site)	D4 (on site)	D5 (on site)	D6 (off Site)	D7 (on site)
July 2020	0.00392	0.00123	0.0083	0.013	0.00464	0.0012	NS
Background (2010)	0.0034	0.005	0.005	0.006	-1	0.004	-1

Note: "1" = background not available, NS = No sample



There are no guidelines for deposited lead dust. Lead results in July were highest in the D5 Silver Tank gauge but very low for most gauges considering results from previous months. The predominant wind directions for July were from the SW, SSW, and S. However, high volume air samplers HVAS and HVAS1 are collocated with D5 Silver Tank and they recorded elevated lead levels during monitoring events when the wind was from the NE and NNE. This suggests there may be contribution from site activities. High levels recorded at D3 Thompsons Shaft and D4 Junction Mine may also have been the result of site activities.

Dust suppressant is applied to unsealed areas of the site and roads are frequently watered using water carts.

1.4 Ventilation Outlets and Bag House Monitoring

There are two locations to measure pollutants from exhausts or stacks; these include the Primary Ventilation Shaft, measuring pollutants from underground firings, and the Baghouse Stack at the crusher measuring dust. Each are located on site; the Primary Ventilation Shaft is located centrally and to the north of the mine lease and the Primary Crusher Baghouse Stack is located within the area of the processing plant to the east of the lease. Shaft 6 (EPL56)



was removed as a monitoring location with the variation of EPL12559 in March 2019 as it became an intake rather than an exhaust in April 2018. A map indicating these locations can be found on the Rasp Mine web site. Samples are collected quarterly and analysed for a number parameters listed in below. Reference to the item required in the Rasp Mine Environment Protection Licence (EPL) is provided below. Emissions monitoring is conducted quarterly.

The following criteria apply:

Primary Ventilation Shaft (EPL1)

	Unit	Criteria
Nitrogen Oxides	mg/m ³	350
Volatile Organic Compounds	mg/m ³	40

Primary Ventilation Shaft (EPL1) and Crusher Baghouse (EPL2)

	Unit	Criteria
Total Suspended particles	mg/m ³	20
Type 1 and Type 2 ¹	mg/m³	1

Note 1: "Type 1 substance" means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements.

Primary Vent Shaft (EPL1) and Crusher Baghouse (EPL2) Results for July

Monitoring of the Primary Bent Shaft (EPL1) and the Crusher Baghouse (EPL2) emissions is conducted on a quarterly basis and was last conducted on 16 June 2020. The measured results from this monitoring event were below the licence criteria. The next monitoring event was scheduled for September

2 Noise

2.1 Blasting (Vibration and Overpressure)

There are 6 vibration monitors at various locations to measure for vibration and overpressure from blast firings. These include V1 to V5 which are located off-site and V6 which is located on-site near Shaft 4. A map indicating these locations can be found on the Rasp Mine web site. In addition, there are a number of roving monitors which may be used to monitor vibration and overpressure at particular locations as required. Monitors operate continuously and are automatically triggered to record when a blast occurs. The following conditions apply as listed in the PA 07_0018 and EPL 12559:-

Blasting Criteria (Western Mineralisation and Main Lodes excluding Block 7)

Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	Allowable Exceedance (for production and development blasts)
Residence on privately		5	5% of the total number

[&]quot;Type 2 substance" means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements.



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owned land	115	of blasts over a 12-		
(7am-7pm)			period ¹	
(7am-7pm)	120	10	0%	
(7pm-10pm)	105	-	-	
(10pm-7am)	95	-	-	
Public Infrastructure	-	100	0%	

Note 1: Does not apply until completion of Pollution Reduction Program on the EPL at the end of 2018. Applies to EPL criteria in the period for the Annual Return 3 Nov to 2 Nov the following year and to DPE criteria in the reporting period 1 Jul to 30 Jun each year.

Blasting Criteria (Block 7)

Location	Airblast Overpressure (dB(Lin Peak)	Ground Vibration (mm/s)	Allowable Exceedance (for production and development blasts)	
Residence on privately		3 (interim)	5% of the total number of	
owned land	115		blasts over a 12-month period ¹	
(7am-7pm)				
(7am-7pm)	120	10	0%	
(7pm-10pm)	105	-	-	
(10pm-7am)	95	-	-	
Broken Hill Bowling				
Club, Italio (Bocce)	-			
Club, Heritage Items		50	0%	
within CML7				
Perilya Southern	-		·	
Operations		100	0%	
Public Infrastructure	-	100	0%	

Note 1: Applies to EPL criteria in the period for the Annual Return 3 Nov to 2 Nov the following year and to DPE criteria in the reporting period 1 Jul to 30 Jun each year.

In addition the following conditions also apply:-

- Production blasts may occur between 6.45 am and 7.15 pm on any day
- 1 production blast per day, with 6 per week averaged over a calendar year
- 6 development blasts per day, with 42 per week averaged over a calendar year

Blasting Data Summary Results for July

Total Blasts:

- 0 production blasts occurred before 6.45 am or after 7.15 pm
- The number of Production blasts averaged 3.83 per week over the previous calendar year
- The number of Development blasts averaged 35.38 per week over the previous calendar year

Western Mineralisation and Main Lodes (excluding Block 7):

- 0 Blasts recorded >5 mm/s
- 0 Blasts recorded >10 mm/s
- 0 development blasts recorded an over pressure level over 95 dBL (10pm to 7am)
- 0 development blasts recorded an over pressure level over 105 dBL (7pm to 10pm)
- 0 Blasts recorded an over pressure level over 115dBL (7am to 7pm)
- 0 Blasts recorded an over pressure level over or 120 dBL at any time
- Percentage of development blasts over 5 mm/sec for the annual period = 0%
- Percentage of production blasts over 5 mm/sec for the annual period = 5.6%

Block 7:



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- 0 Blasts recorded >3 mm/s
- 0 Blasts recorded >10 mm/s
- 0 Blasts recorded >50 mm/s at V6
- 0 development blasts recorded an over pressure level over 95 dBL (10pm to 7am)
- 0 development blasts recorded an over pressure level over 105 dBL (7pm to 10pm)
- 0 Blasts recorded an over pressure level over 115 dBL (7am to 7pm)
- 0 Blasts recorded an over pressure level over or 120 dBL at any time
- Percentage of development blasts over 3mm/sec for the annual period = 0%
- Percentage of production blasts over 3mm/sec for the annual period = 0%

The percentage of production blasts over 5 mm/sec in the Western Mineralisation and Main Lodes exceed the licence limit of 5% but compliance with the Environmental Protection Licence limits is calculated at the end of the reporting period which is November 1 of each year.

The percentage of production blasts over 3 mm/sec in Block 7 exceed the licence limit of 5% but compliance with the Environmental Protection Licence limits is calculated at the end of the reporting period which is November 1 of each year. The limited number of blasts in Block 7 can result in an inflated exceedance of the compliance limit.

2.2 Noise

Noise monitoring is undertaken as per the NSW Noise Policy for Industry at a frequency of once per annum. Annual noise monitoring was last conducted in October 2019.

The monitoring assessment found that site LAeq, 15min noise contributions satisfied the relevant limits during the measurements at all assessment locations

3 Water

3.1 Groundwater

There are eighteen sampling locations for groundwater. GW01 (EPL37) to GW16 (EPL52) are piezometers installed at various locations around the mine site and are sampled quarterly. There are also two sampling locations for water pumped from underground mining, Shaft 7 (EPL53) and Kintore Pit (EPL54), which are sampled monthly. A map indicating these locations can be found on the Rasp Mine web site. Groundwater monitoring is scheduled for completion in March, June, September and January. No limits are applied in the EPL to the results from groundwater monitoring. Results have remained stable.

Groundwater Monitoring Requirements

EPA Identification Number	Frequency	Parameters to be analysed
Shaft 7 EPL53	Monthly	alkalinity (calcium carbonate (CaCO ₃)), cadmium (Cd), calcium (Ca), chloride (Cl), electrical conductivity (EC), iron (Fe), lead Pb),
Kintore Pit (U/G dewatering) EPL54	Monthly	magnesium (Mg), manganese (Mn), pH, sodium (Na), sulphate
Piezometers EPL37 (GW01) to EPL52 (GW16)	Quarterly	(SO4), total dissolved solids (TDS) and zinc (Zn)



Shaft 7 (EPL53) and Kintore Pit (EPL54) Results for July

Sample Point	рН	EC (μS/cm²)	TDS (mg/l)	Alkalinity (CaCO ₃) (mg/l)	SO4 (mg/l)	CI (mg/I)	Ca (mg/I)	Mg (mg/l)	Na (mg/I)	Cd (mg/l)	Pb (mg/l)	Mn (mg/l)	Zn (mg/l)	Fe (mg/l)
Shaft 7 (EPL53)	5.73	12100	13800	5	5610	1740	494	267	1670	3.35	1.23	336	1080	<0.05
Kintore Pit (EPL54)	5.09	12500	14600	1	5650	1750	484	272	1660	3.85	1.83	363	1240	<0.05

Groundwater Bores (EPL37 - EPL52) Results for July

Quarterly groundwater monitoring was not required in July.

3.2 Surface Water Sample Record

There are seven sampling locations for surface water, these include surface water basins located on the mine lease to capture and retain rainfall and two locations up and down stream of an ephemeral creek located south of the mine lease boundary. A map indicating these locations can be found on the Rasp Mine web site. Sampling is undertaken in October (highest rainfall month as recorded by Bureau of Meteorology) and April.

Surface Water Monitoring Requirements

Description	Frequency	Parameters to be Analysed
Federation Way Culvert EPL29/S31-1	2 x per year, six months apart	
Ryan Street Dam EPL31/S49	2 x per year, six months apart	cadmium (Cd), chloride (Cl), electrical
Adjacent Olive Grove EPL32/S1A	2 x per year, six months apart	conductivity (EC), lead Pb), manganese
Adjacent Bowls Club EPL33 /S9-B2	2 x per year, six months apart	(Mn), pH, sodium (Na), sulphate (SO4), total dissolved solids (TDS) and zinc (Zn)
Horwood Dam EPL34/S34	2 x per year, six months apart	
Upstream Bonanza St EPL35	2 x per year, six months apart	
Downstream Sydney Rd EPL36	2 x per year, six months apart	

Surface Water Monitoring Results

No samples could be collected in July due to insufficient rainfall.



4 Weather Data

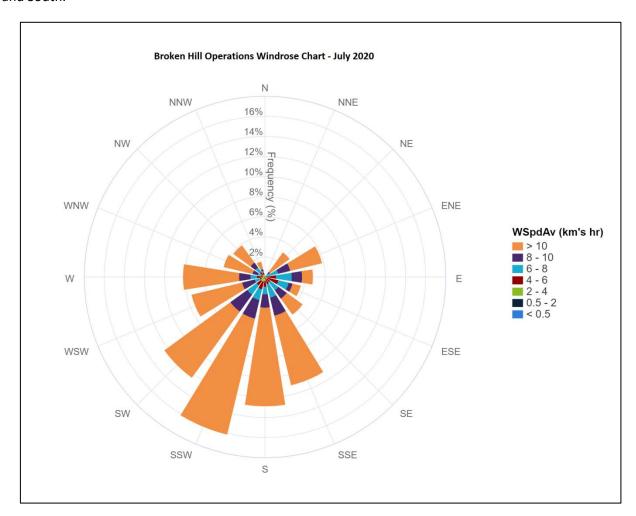
The weather station continuously monitors the following parameters as per Point 55 of the Environmental Protection Licence.

The following parameters are required to be recorded each month as listed in the EPL 12559:-

Rasp Mine Weather Station (EPL55) Monitoring Requirements

Parameter	Sampling method	Units of measure	Averaging period	Frequency
Temperature at 10 metres	AM-4	degrees Celsius	15 minutes	Continuous
Wind Direction at 10 metres	AM-4	degrees in a clockwise direction from True North	15 minutes	Continuous
Wind Speed at 10 metres	AM-4	metres per second	15 minutes	Continuous
Rainfall	AM-4	millimetres	1 hour	Continuous
Sigma theta	AM-2 & AM-4	degrees	15 minutes	Continuous

The windrose provided below indicates the predominant wind directions for the month of July were from the SW, SSW and South.





Weather Data Summary for July

Date	Tempe @ 10:	erature m (°C)		Speed (km/hr)	Predomina Direction		Rainfall (mm)
_	Min	Max	Min	Min Max		Degree	Total
01-Jul-20	11.9	21.3	6.2	36.5	SW	228	0.00
02-Jul-20	8.1	14.3	4.2	19.4	WSW	247	0.00
03-Jul-20	7.1	15.0	5.4	31.0	West	269	0.00
04-Jul-20	4.5	11.3	1.5	29.5	SSW	200	0.00
05-Jul-20	6.9	10.9	5.7	26.6	South	181	0.00
06-Jul-20	4.8	9.9	5.3	18.8	SSE	159	0.00
07-Jul-20	3.8	11.3	1.8	16.9	SE	136	0.00
08-Jul-20	4.6	14.0	0.4	12.7	ENE	70	0.00
09-Jul-20	7.0	14.4	4.5	15.9	ENE	65	0.00
10-Jul-20	10.7	18.3	4.1	24.1	NW	313	0.40
11-Jul-20	7.4	13.3	1.2	24.5	West	270	1.50
12-Jul-20	4.7	11.6	5.1	17.6	SSW	203	0.00
13-Jul-20	5.5	14.1	8.4	30.2	South	184	0.00
14-Jul-20	4.6	14.2	3.1	22.2	South	184	0.00
15-Jul-20	6.7	14.6	2.2	14.0	SW	222	0.00
16-Jul-20	9.1	16.0	1.6	18.0	East	89	0.00
17-Jul-20	8.3	17.3	1.3	17.9	ENE	66	0.00
18-Jul-20	7.0	15.8	4.9	28.1	NNE	22	0.00
19-Jul-20	7.7	17.5	2.2	28.4	SW	225	0.00
20-Jul-20	5.1	12.9	6.6	21.8	SSE	156	0.00
21-Jul-20	5.9	11.8	7.6	24.2	SSE	157	0.00
22-Jul-20	2.1	12.0	7.0	23.3	SSE	160	0.00
23-Jul-20	3.8	13.8	4.4	15.8	ESE	112	0.00
24-Jul-20	7.4	18.3	3.0	26.2	NE	44	0.00
25-Jul-20	8.3	17.6	2.6	21.6	NE	44	0.00
26-Jul-20	7.0	16.2	6.1	23.4	SSW	204	0.00
27-Jul-20	6.6	14.2	9.7	32.9	SSW	200	0.00
28-Jul-20	3.8	14.6	1.2	30.1	SW	222	0.00
29-Jul-20	7.6	18.0	0.4	20.5	SW	225	0.00
30-Jul-20	6.5	15.4	4.1	19.3	SSE	156	0.00
31-Jul-20	7.4	18.2	1.1	17.3	NE	43	0.00



5 Data Log

Sample	Result Received
Hi Volume Samples	26-08-2020
ТЕОМ	28-08-2020
Dust Deposition	28-08-2020
Vents & Bag House	24-07-2020
Water	25-08-2020
Blast vibration and overpressure	1-08-2020
Weather	1-08-2020
Date posted to web site	17-09-2020

6 Correction Log

No corrections required.